ABSTRACT

FILTER ARRANGEMENT WITH A LINEAR PHASE CHARACTERISTIC, AND METHOD TO DEVELOP SUCH A FILTER ARRANGEMENT

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A filter arrangement with a linear phase characteristic is constituted by cascade coupling a first filter (F1) and a second filter (F2). The first filter (F1) is an analogue or digital filter designed so that its amplitude characteristic meets a predefined amplitude specification. The second filter (F2) is implemented as the
10 anti-causal version of a fictive digital all-pass filter (APF) that is designed so that its phase characteristic, up to a linear function of frequency, equals the phase characteristic of the first filter (F1).